

SCIENCE

NEW SERIES. VOLUME XXXVII

JANUARY-JUNE, 1913

NEW YORK
THE SCIENCE PRESS
1913

THE NEW ERA PRINTING COMPANY,
41 NORTH QUEEN STREET,
LANCASTER, PA.

CONTENTS AND INDEX.

NEW SERIES. VOL. XXXVII.—JANUARY TO JUNE, 1913.

The Names of Contributors are printed in Small Capitals.

- A., J. A., Michigan Bird Life, W. B. Barrows, 372; Mammals, G. S. Miller, Jr., 453
 Abderhalden, E., Ferments, J. AUER, 837
 Academic, Costume, B. G. WILDER, 178; J., 371; T., 488; Freedom, J. E. CREIGHTON, 450, 602; H. LEFFMAN, 602
 Accounts of Learned Societies, A. B. HART, 66; S. N. PATTEN, 371
 ADAMS, G. I., Segment and Segmentation, 177
 Aeroplane, Gyroscopic Forces in, E. V. HUNTINGTON, 484
 Age and Fecundity, R. PEARL, 226
 Agricultural, College, Educational Standards at, B. H. HIBBARD, 751; Research, Endowed, R. PEARL, 707; E. DAVENPORT, 907
 Alder, J., and A. Hancock, British Tunicata, W. E. RITTER, 451
 ALDRICH, J. M., University Life in Idaho, 943
 ALLEE, W. C., Molting in Isopods, 882
 Alleghany Valley Erosion, E. H. WILLIAMS, JR., 447
 Alpine Laboratory, F. E. CLEMENTS, 327
 American Assoc. for the Advancement of Science, Address of President, 1; Proceedings Cleveland Meeting, 41; Section A, 76; Section B, 119; Section H, 133; Section I, 159; Section F, 199; Section H, 275, 341; Section K, 389; Section E, 501; Section D, 568; Pacific Coast Meeting, 660; Council, 661; Chem. Soc., 299; C. L. PARSONS, 674; Geog. Soc., A. P. BRIGHAM, 210; Math. Soc., F. N. COLE, 115, 460, 845; Museum Nat. Hist., Pensions, 827; Philos. Soc., 232, 425, 690; and President Wilson, 476; A. W. GOODSPEED, 718; Physiol. Soc., J. ERLANGER, 232; Soc. Agric. Engineers, I. W. DICKERSON, 235; Soc. for Pharmacol. and Exp. Therapeutics, J. AUER, 193; Soc. of Zool., W. C. CURTIS, 261
 Amphibia, Ancestry of, W. K. GREGORY, 806
 Anesthetics, W. J. V. OSTERHOUT, 111; R. S. LILLIE, 765, 959
 Anthropological Soc. of Wash., W. H. BABCOCK, 77, 158, 236, 349, 387, 499, 538, 578, 614, 884
 Anthropology at Cleveland, G. G. MACCURDY, 341
 Appalachians, B. K. EMERSON, 20
 ARCHIBALD, R. C., Eloge Académique, G. Darboux, 983
 ARTHUR, J. C., New Weed Exterminator, 19
 Astronomical and Astrophys. Soc. of Amer., P. FOX, 25, 639
 ATKINSON, G. F., Cnothera, 716
 AUER, J., Ferments, E. Abderhalden, 837
 Avogadro's Law, J. LOEB, 427
 BABCOCK, W. H., Anthropol. Soc. of Wash., 77, 158, 236, 349, 387, 499, 538, 578, 614, 884; Grana de Brasile, 304
 Bacteria and Freezing Point of Water, S. C. KEITH, JR., 877
 BAKER, F. C., Interglacial Records in N. Y., 523
 Balls, W. L., Cotton Plant, T. H. K., 634
 BANKS, N., Notes on Entomology, 530; Entomology, C. Schröder, 872
 BARDEEN, C. R., Anatomy of Vertebrates, J. S. Kingsley, 148
 BARKER, L. F., Diagnosis and Therapy, 731
 BARNETT, S. J., Relativity, 113, 560; Electricity and Magnetism, S. G. Starling, 415
 Barrows, W. B., Michigan Bird Life, J. A. A., 372
 Barrows, W. E., Light, Photometry and Illumination, E. C. CRITTENDEN, 109
 Basin-range Structure, C. R. KEYES, 226; S. PAIGE, 710
 BASKERVILLE, C., Rarer Elements, P. E. Browning, 109
 BELL, J. M., Elisha Mitchell Sci. Soc., 158, 388
 BENEDICT, R. C., Food, 792
 BERKEY, C. P., New York Acad. Sci., 958
 BERRY, E. W., Geology of Paris, P. Lemoine, 257; Pithecanthropus erectus, 418; Paleobotanical Yearbook, Jongman, 670
 BESSEY, C. E., Botanical Science, 1; Botanical Notes, 337, 417, 492, 915; Trees in Winter, A. F. Blakeslee and C. D. Jarvis, 528
 BEUTNER, R., Mathematics for Scientists and Physicians, J. Salpeter, 947; and J. LOEB, Bioelectrical Potential Differences, 672
 Bigelow, M. A. and A. N., Biology, J. G. NEEDHAM, 714
 Billings, John Shaw, 512
 Bioelectrical Potential Differences, J. LOEB and R. BEUTNER, 672
 Biological Soc. of Wash., D. E. LANTZ, 425, 808
 BISSELL, G. W., Section D—Amer. Assoc., 568
 Bjerknes and Sandström's Meteorology, F. R. SHARPE, 223
 BLAKESLEE, A. F., Labeling Surface for Glassware, 561; Sex in Mucors, 880
 Blakeslee, A. F., and C. D. Jarvis, Trees in Winter, C. E. BESSEY, 528
 Blanckenhorn, M., Nat. Hist. of Dead Sea, E. HUNTINGTON, 635
 Blocks and Segments, A. J. UDDEN, 709
 BLODGETT, F. H., Conn's Biology, 218
 Boll-weevil, O. F. COOK, 259
 Botanical, Notes, C. E. BESSEY, 337, 417, 492, 915; Science, C. E. BESSEY, 1; Soc. of Amer., G. T. MOORE, 373; Soc. of Wash., C. L. SHEAR, 157, 312, 461, 883, 921; Taxonomy, W. T. SWINGLE, 864
 Botany, Old and New, W. G. FARLOW, 79; E. B. COPELAND, 756
 BOVIE, W. T., Proteins, 24, 373
 BOWMAN, I., Assoc. of Amer. Geographers, 235
 Bowman Expedition, 702
 Bragg, W. H., Radioactivity, R. A. MILLIKAN, 492
 BRANNER, J. C., Flowing Road, C. Whitney, 151
 BRIDGES, C. B., Sex-linkage, 112

- BRIGHAM, A. P., Amer. Geog. Soc., 210; Geographical Discovery, E. Heawood, 668
 Broquet, C., and Wm. Scott, Microbes and Toxins, C.-E. A. WINSLOW, 989
 BROWN, B., Cuban Fresh-water Fishes, 667
 BROWN, F. C., Sodium and Radioactivity, 72
 BROWNING, P. E., Rarer Elements, C. BASKERVILLE, 109
 BRYCE, J., Speech before Nat. Acad. Sci., 779
- C., C. M., Terminology, C. Correns and others, 668
 C., H., Light, C. Huygens, 610
 CAJORI, F., Arithmetic, G. B. Halsted, 609
 CALDWELL, O. W., Ill. State Acad. of Sci., 496
 Calendar Reform, J. M. CLIFFORD, JR., 219
 California, Acad. of Sci., A. L. KROEBER, 833; Medical Department, 14
 CALKINS, G. N., Protozoa, E. A. Minchin, 603
 Cambridge Manuals, T. D. A. COCKERELL, 608
 Canada, Mineral Wealth, M. E. WADSWORTH, 839; Otter, A. G. RUTHVEN and F. M. GAIGE, 883
 Canadian Geol. Cong., 703
 CANNON, W. A., Root Characters, 420
 CARMICHAEL, R. D., Graduate Study, 738
 Carnegie, Foundation, 299, 512; A. O. LOVEJOY, 546; Institution, 313
 Carrington, F. S., Fresh Air, H. SEWALL, 564
 CHAMBERLAIN, A. F., Aborigines of Minnesota, A. J. Hill and T. H. Lewis, 671
 Chestnut Blight Fungus, F. D. HEALD and M. W. GARDNER, 916
 CLARK, G. A., Fur Seals, 325, 553
 CLARK, H. L., A Protest, 106
 CLARKE, J. M., Cambrian Brachiopoda, C. D. Walcott, 488
 Clarke, J. M., and R. Ruedemann, Eurypterida of N. Y., C. R. EASTMAN, 631
 CLEMENTS, F. E., The Alpine Laboratory, 327
 CLIFFORD, J. M., JR., Calendar Reform, 219
 COCKERELL, T. D. A., N. A. Dragon Flies, E. M. Walker, 23; Conn's Biology, 219; Conchology, A. Hyatt and H. A. Pilsbry, 255; Mosquitoes of N. and Cent. Amer. and the West Indies, L. O. Howard, 526; Home Univ. Library, 606; Cambridge Manuals, 608
 COCKS, R. S., New Orleans Acad. of Sci., 40
 COLE, F. N., Amer. Mat. Soc., 115, 460, 845
 College President, W. T. FOSTER, 653
 Columbia Institute of Arts and Sciences, 365
 COMPTON, A. H., Earth's Rotation, 803
 Comstock, A. B., Nature Study, V. L. K., 669
 CONKLIN, E. G., Heredity and Responsibility, 46
 Conn's Biology, F. H. BLODGETT, 218; T. D. A. COCKERELL, 219
 COOK, O. F., Boll-weevil, 259
 COPELAND, E. B., Botany, 756
 Correlation in Peach, U. P. HEDRICK, 917
 Correns, C., and others, Terminology, C. M. C., 668
 Cotton Weevils, C. H. T. TOWNSEND, 638
 CREIGHTON, J. E., Academic Freedom, 450, 602
 CREW, H., Galileo, 463
 CRITTENDEN, E. C., Light, Photometry and Illumination, W. E. Barrows, 109
 Crops, C. G. HOPKINS, 470
 CROSBY, C. R., Sanderson and Jackson's Entomology, 220
 CURTIS, W. C., Thomas Harrison Montgomery, 171; Amer. Soc. of Zool., 261
 Czapek, F., Chemical Phenomena, R. J. POOL, 66
 Dakin, H. D., Oxidations in the Animal Body, L. B. MENDEL, 21
 DALL, W. H., Priority Rule, 58
 Dana Centenary, 935
 Darboux, G., Eloge académiques, R. C. ARCHIBALD, 983
 DARLING, S. T., Staining of Protozoa, 58; Equine Piroplasmosis, 370; Entamoeba tetragena, 524
 Daugherty, L. S. and M. C., Economic Zoology, H. OSBORN, 839
 DAVENPORT, C. B., Eugenics, 370
 DAVENPORT, E., Constituency of Experiment Stations, 907
 DAVIS, B. M., Amer. Soc. Naturalists, 371
 Davis, N. S., Food, W. H. JORDAN, 604
 DEXTER, J. S., Mosquitoes Pollinating Orchids, 867
 Diagnosis and Therapy, L. F. BARKER, 731
 DICKERSON, I. W., Amer. Soc. Agric. Eng., 235
 Discussion and Correspondence, 19, 58, 99, 146, 176, 218, 253, 303, 332, 369, 411, 446, 484, 519, 560, 600, 628, 666, 707, 751, 788, 833, 864, 907, 940, 979
 Diuretic Salts, M. H. FISCHER and A. SYKES, 845
 DIXON, R. B., and A. L. KROEBER, Indian Languages, 225
 DODGE, B. O., Torrey Botan. Club, 312
 Dohrn, Anton, E. B. WILSON, 332
 Drew, George Harold, A. G. MAYER, 542
 Drosophila, A. H. STURTEVANT, 990
 DUNLAP, K., Palmesthetic Beats, 532
- EASTMAN, C. R., Eurypterida of N. Y., J. M. Clarke and R. Ruedemann, 631
 Echinoderm Hybridization, D. H. TENNENT, 535
 Educational, Diagnosis, E. L. THORNDIKE, 133, 258; Institutions and Agricultural Science, R. W. THATCHER, 566; Kansas Legislation, C. A. SHULL, 622
 Efficiency Nostrum at Harvard, 106
 EICHHORN, A., Veterinary Congress, 858
 Elisha Mitchell Sci. Soc., J. M. BELL, 158, 388
 ELLWOOD, C. A., Scientific Method, 412
 EMERSON, B. K., The Appalachians, 20
 Endosperm of Sugar Corn, H. HUS, 940
 Engler, C., and H. v. Hoefer, Das Erdöl, C. F. MABERY, 712
 Entomological Soc. of Amer., A. D. MACGILLIVRAY, 307
 Entomology, Notes, N. BANKS, 530
 Eoanthropus Dawsoni, A. C. HADDON, 91
 Equine Piroplasmosis, S. T. DARLING, 370
 ERLANGER, J., Amer. Physiol. Soc., 232
 Eugenics, C. B. DAVENPORT, 370; Record Office, 553
 Euler, H., Enzymes, C. S. HUDSON, 454
- F., R. L., Biology, O. Hertwig, 64
 FAIRCHILD, H. L., Pleistocene Geology, 239, 290
 FARLOW, W. G., Old and New Botany, 79
 FERRY, F. C., National Conference Committee, 933
 FETZER, L. W., Soc. Research Workers in Exper. Biol., 274
 Figure and Dimensions of the Universe, C. J. KEYSER, 885
 FISCHER, M. H., and A. SYKES, Diuretic Salts, 845
 Fisher, I., Purchasing Power of Money, E. B. WILSON, 758

- FitzSimons, F. W., Snakes of S. Africa, A. G. RUTHVEN, 182
Fletcher, A. C., and F. LaFlesche, The Omaha Tribe, R. H. LOWIE, 910
Food, J. H. LONG, 395; R. C. BENEDICT, 792
FORBES, S. A., Simulium-Pellagra, 86
Force, Lines of, W. S. FRANKLIN, 756
Forest Service Investigations, B. MOORE, 802
FOSTER, W. T., The College President, 653
FOX, P., Astron. and Astrophys. Soc. of Amer., 25, 639
FRANKLIN, W. S., The Yellowstone, 446; Lines of Force, 756; Dust and Smoke, 835
Fullerton, G. S., The World We live in, A. O. LOVEJOY, 867
Fur Seal, Legislation, D. S. JORDAN and A. C. CLARK, 553; Service, G. A. CLARK, 325
- G., J. E., Chemistry, F. R. L. Wilson and G. W. Hedley; Engineering Chemistry, A. J. Hale; Chemistry, M. S. H. Unger, 373
GAIGE, F. M., and A. G. RUTHVEN, Canada Otter, 883
Galileo, H. CREW, 463
GARDNER, M. W., and F. D. HEALD, Chestnut Blight Fungus, 916
GATES, R. R., Cnothera and Climate, 155
Genetics and Breeding, R. PEARL, 539
Geographers, Assoc. Amer., I. BOWMAN, 235
Geographical Cong., Internat., W. H. HOBBS, 743
Geological, Soc. Amer., 239; Survey, 205, 440
Geology, Segment and Segmentation in, G. I. ADAMS, 177; Pleistocene, H. L. FAIRCHILD, 239, 290; and Geography, G. F. KAY, 456
GILL, A. C., Crystallographic Usage, 628
Given, A., Sugar Analysis, F. G. WIECHMANN, 838
Glassware, Labeling, A. F. BLAKESLEE, 561
Gooch, F. A., Chemical Analysis, H. P. TALBOT, 108
GOODSPEED, A. W., Amer. Philos. Soc., 718
Graduate Study, R. D. CARMICHAEL, 738
GREEN, C. W., Electrical Machine Design, A. Gray, 800
GREGORY, W. K., Ancestry of the Amphibia, 806
Greil, A., Entwicklungs- und Vererbungsprobleme, J. P. McM., 304
GRINNELL, F., Jr., W. G. Wright, 142
GUDGER, E. W., N. C. Acad. of Sci., 992
- HADDON, A. C., Eoanthropus Dawsoni, 91
HADLEY, A. T., Science and Higher Education, 775
Hale, A. J., Chemistry for Engineers, J. E. G., 373
HALL, M. C., Helminthological Soc. of Wash., 78, 197, 498, 577
Halle, T. G., Mesozoic Flora of Graham Land, F. H. KNOWLTON, 763
HALSTED, G. B., Plus and Minus, 836
Halsted, G. B., Arithmetic, F. CAJORI, 609
HANDSCHIN, C. H., Modern Languages, 600
HARGITT, C. W., Vital Statistics, 753
HARRIS, J. A., Variety Tests, 493
HART, A. B., Accounts of Learned Societies, 66
"Haunted" House, F. SCHNEIDER, JR., 711
HAWKESWORTH, A. S., Formula for Biologists, 332
HAYNES, W. P., Bivalve Crustacea, 191
HEALD, F. D., and M. W. GARDNER, Chestnut Blight Fungus, 916
Heawood, E., Geographical Discovery, A. P. BRIGHAM, 668
HEDRICK, U. P., Correlation in Peach, 917
HEGNER, R. W., Mich. Acad. of Sci., 767
Helium and Neon, J. J. THOMSON, 360
Helminthological Soc. of Wash., M. C. HALL, 78, 197, 498, 577
HENDERSON, L. J., Neutrality in Animal Body, 389
Henry, T. A., The Plant Alkaloids, E. K., 948
Heredity, and Responsibility, E. G. CONKLIN, 46; of Color, O. LLOYD-JONES, 613; and Microscopical Research, E. B. WILSON, 814
Hering, D. W., Physics, G. F. HULL, 184
Hertwig, O., Biology, F. R. L., 64
HEWITT, C. G., The Imperial Bureau of Entomology, 659
HIBBARD, B. H., Educational Standards, 751
HIGGINS, B. B., Cylindrosporium on Prunus avium, 637
Hill, A. J., and T. H. Lewis, Aborigines of Minnesota, A. F. CHAMBERLAIN, 671
HOBBS, W. H., Internat. Geog. Cong., 743
Hoefer, C. v., and C. Engler, Das Erdöl, C. F. MABERY, 712
HOLDEN, E. S., Greek Architecture, 19
Holt, E. B., and others, New Realism, A. O. LOVEJOY, 867
Hooker, A. H., Chloride of Lime, G. C. WHIPPLE, 948
HOPKINS, C. G., Facts and Fiction about Crops, 470
HOSKINS, R. G., Medical Research, 303
HOVEY, E. O., N. Y. Acad. of Sci., 196
HOWARD, L. O., Amer. Assoc., 661
Howard, L. O., Mosquitoes of N. and Cent. Amer. and W. I., T. D. A. COCKERELL, 526
HOWELL, W. H., Sleep, H. Pieron, 525
HOYT, K., National University, 99
HRDLÍČKA, A., Explorations in Siberia, 13
HUDSON, C. S., Enzymes, H. Euler, 454
HULL, G. F., Physics, W. Watson, 183; D. W. Hering, 184
HUNTINGTON, E., Nat. Hist. of the Dead Sea, M. Blanckenhorn, 635
HUNTINGTON, E. V., Gyroscopic Forces in Aeroplane, 484
HUS, H., Endosperm of Sugar Corn, 940
HUSSAKOF, L., Ramsay Heatley Traquair, 509
Huygens, C., Light, H. C., 610
Hyatt, A., and H. A. Pilsbry, Conchology, T. D. A. COCKERELL, 255
- Idaho, University Life in, V. L. KELLOGG, 751; J. A. MACLEAN, 835; J. M. ALDRICH, 943
Illinois State Acad. of Sci., O. W. CALDWELL, 496
Index Acad. Nat. Sci., Phila., E. J. NOLAN, 876
Indian Languages, R. B. DIXON and A. L. KROEBER, 225
INGERSOLL, L. R., Indoor Humidity, 524
International Cooperation in Research, A. SCHUSTER, 691
- J., Academic Costume, 371
JAMES, G. O., St. Louis Acad. of Sci., 350, 460, 537, 994
Japan, Mineralogy in, G. F. KUNZ, 152
JOHNSTON, H. H., Livingstone as Explorer, 923

- Jongman, Paleobotanical Yearbook, E. W. BERRY, 670
- JORDAN, D. S., Dr. Edwin Tausch, 179; "More Little Beasts," 413; and D. A. CLARK, Fur Seal Legislation, 553
- Jordan, Chancellor, and President Branner, 827
- JORDAN, W. H., Nutritional Physiology, P. G. Stiles, 491; Food, N. S. Davis, Jr., 604
- K., E., The Plant Alkaloids, T. A. Henry, 948
- K., T. H., Cotton Plant, W. L. Balls, 634
- K., V. L., Nature Study, A. B. Comstock, 669
- Kahn Foundation, R. M. W., 932
- Kansas, University Life in, 796
- KAY, G. F., Section E—Geology and Geography, 456
- KEITH, S. C., JR., Bacteria and Freezing Point of Water, 877
- KELLER, A. G., William G. Sumner, 487
- KELLCOTT, W. E., Cong. of Zool. at Monaco, 593
- KELLOGG, V. L., Docophori of the Owls, 154; University Life in Idaho, 751
- KENT, W., English Composition, 942
- KEPNER, W. A., Philos. Soc. Univ. Va., 388, 462, 614, 768, 922
- KEYES, C. R., Basin-range Structure, 226
- KEYSER, C. J., Figure and Dimensions of the Universe, 885
- KIMBALL, A. L., Relativity, 411
- Kingsley, J. S., Anatomy of Vertebrates, C. R. BARDEEN, 148
- KIRK, C. T., N. Y. Acad. of Sci., 958
- KNAB, F., Control of Mosquitoes, 147
- KNOWLTON, F. H., Mesozoic Flora of Graham Land, T. G. Halle, 763
- KROEBER, A. L., California Acad. of Sci., 833; and R. B. DIXON, Indian Languages, 225
- KUNZ, G. F., Mineralogy in Japan, 152
- L., F. R., O. Hertwig, Biologie, 64
- LADD, G. T., The Study of Man, 275
- LA FLESCHÉ, F., The Omaha Tribe, 982
- LANE, A. C., Meteor Dust and Geologic Time, 673
- LANTZ, D. E., Biol. Soc. of Wash., 425, 808
- LEFEVRE, E., Medical Education, 847
- LEFFMANN, H., Academic Freedom, 602
- Leidy, Joseph, Lecture, E. F. SMITH, C. S. MINOT, 809; E. B. WILSON, 814
- LEIGHTON, H., Building Stones, 254
- Lemoine, P., Geology of Paris, E. W. BERRY, 257
- LEWIS, E. P., Pacific Coast Meeting Amer. Assoc., 660
- Lewis, G. N., and E. B. Wilson, Space-time Manifold of Relativity, J. B. SHAW, 943
- Lewis, T. H., and A. J. Hill, Aborigines of Minnesota, A. F. CHAMBERLAIN, 671
- LILLIE, R. S., Anesthetic Action, 765, 959
- Livingstone as Explorer, H. H. JOHNSTON, 923
- LLOYD, F. E., Non-astringency in Persimmons, 228
- Lloyd, R. E., Groups in Animal Kingdom, F. E. LUTZ, 150
- LLOYD-JONES, O., Heredity of Color, 613
- LOEB, J., Avogadro's Law and Absorption of Water by Animal Tissues, 427; and R. BEUTNER, Bioelectrical Potential Differences, 672
- Loeb, J., Mechanistic Conception of Life, E. G. SPAULDING, 333
- LONG, J. H., Preservation of Food, 395
- Lost River, R. W. SAYLES, 611
- LOVEJOY, A. O., Carnegie Foundation, 546; New Realism, E. B. Holt and others, 867; The World We live in, G. S. Fullerton, 867
- LOWIE, R. H., The Omaha Tribe, A. C. Fletcher and F. La Flesche, 910
- LULL, R. S., The Horse, R. Lydekker, 413
- LUTZ, F. E., Groups in Animal Kingdom, R. E. Lloyd, 150; Occidental Spiders, 567
- MABERY, C. F., Das Erdöl, C. Engler and H. v. Hoefer, 712
- MACCALLUM, G. A., Microcotyle Stenotomi, 340
- MCCLUNG, C. E., Cytological Nomenclature, 369
- MACCURDY, G. G., Origin of Man, G. F. Wright, 305; Anthropology at Cleveland, 341
- MACDOUGALL, R., Neo-vitalism, 104
- MACGILLIVRAY, A. D., Entom. Soc. of Amer., 307
- MCLEAN, J. A., University Life in Idaho, 835
- MCM., J. P., Entwicklungs- und Vererbungsprobleme, A. Greil, 304
- Maize, Proteins of, T. B. OSBORNE, 185
- Man, The Study of, G. T. LADD, 275
- MANN, C. R., Physics and Daily Life, 351
- MARTIN, F. W., Most is—What? 562
- Mathematics and Astronomy, G. A. MILLER, 76
- MATTHEW, W. D., Nomenclature, 788
- MAYER, A. G., George Harold Drew, 552
- Medical, Schools, Research in, P. G. WOOLLEY, 146; Research, R. G. HOSKINS, 303; Education, E. LEFEVRE, 847
- MENDEL, L. B., Oxidations in the Animal Body, H. D. DAKIN, 21
- MENZIES, A. W. C., Indoor Humidity, 758
- Merz, J. T., European Thought, R. M. WENLEY, 796
- Michigan Acad. of Sci., R. W. HEGNER, 767; R. DE ZEEUW, 919
- Microcotyle Stenotomi, G. A. MACCALLUM, 340
- Microorganic Population of the Soil, E. J. RUSSELL, 519
- MILLER, A. M., Thoracic Duct in Chick, 879; Ice Caves, 980
- MILLER, E. R., Sci. Club Univ. Wis., 922
- MILLER, F. J., Metric System, 941
- MILLER, G. A., Mathematics and Astronomy—Section A, 76
- Miller, G. S., Jr., Mammals, J. A. A., 453
- MILLIKAN, R. A., Radiation, 119; Radioactivity, W. H. Bragg, 492
- Minchin, E. A., Protozoa, G. N. CALKINS, 603
- MINOT, C. S., Joseph Leidy, 809
- MITCHELL, S. W., Nat. Acad. of Sci., 782
- Monopolies, Natural, E. B. ROSA, 579
- Monstrosity, Human, L. D. PEASLEE, 982
- Montana, University of, 170
- Montgomery, Thomas Harrison, W. C. CURTIS, 171
- MOORE, B., Forest Service Investigations, 802
- MOORE, E. S., University Instruction, 929
- MOORE, G. T., St. Louis Acad. of Sci., 156; Botan. Soc. of Amer., 375
- MORSE, M., Inorganic Colloids, 423
- Mosquitoes, Control of, F. KNAB, 147; Pollinating Orchids, J. S. DEXTER, 867
- Munro, R., Paleolithic Man, W. D. WALLIS, 633
- NACHTRIEB, H. F., Section F, 199

- National, University, K. HOYT, 99; Acad. of Sci., Anniversary, 554, 662; Int. Cooperation in Research, A. SCHUSTER, 691; Address, I. REMSEN, 769; Science and Higher Education, A. T. HADLEY, 775; J. BRYCE, 779; S. W. MITCHELL, 782; Conference Committee, F. C. FERRY, 933
- Naturalists, Amer. Soc. of, Presidential Address, 46; A. L. TREADWELL, 114; B. M. DAVIS, 371
- NEEDHAM, J. G., Applied Biology, M. A. and Anna N. Bigelow, 714; Teacher's Manual Biology, M. A. Bigelow, 714
- NELSON, W. A., Tenn. Acad. Sci., 193
- Neo-vitalism, R. MACDOUGALL, 104
- Neutrality in the Animal Body, L. J. HENDERSON, 389
- New Orleans Acad. of Sci., R. S. COCKS, 40
- New York Acad. of Sci., E. O. HOVEY, 196, 768; E. P. BERKEY, 958; C. T. KIRK, 958
- NEWCOMBE, F. C., State Nat. Hist. Surveys, 615
- NIPHER, F. E., Magnetic Storm, 836
- NOLAN, E. J., Index Publications Acad. Nat. Sci., Phila., 876
- Nomenclature, Cytological, C. E. MCCLUNG, 369; in Paleontology, W. D. MATTHEW, 788; Zoological, A. E. ORTMANN, 909; A. C. PEALE, 979
- North Carolina Acad. of Sci., E. W. GUDGER, 992
- Northrup, E. F., Electrical Resistance, F. WENNER, 562
- NORTON, J. P., Cost of Living, 159
- OBERHOLSER, H. C., Birds of Africa, G. E. Shelley, 336
- Ohio Acad. of Sci., L. B. WALTON, 117
- ORTMANN, A. E., Zoological Nomenclature, 909
- OSBORN, H., Economic Zoology, L. S. Daugherty and M. C. Daugherty, 839
- OSBORNE, T. B., Proteins of Maize, 185
- Osler, W., Silliman Lectures, 701
- OSTERHOUT, W. J. V., Anesthetics, 111
- OVERTON, J. B., Artificial Parthenogenesis, 841
- Pacific Assoc. of Sci. Societies, 514
- Pacific Coast Meet. Amer. Assoc., E. P. LEWIS, 660
- PAIGE, S., Basin-range Structure, 710
- Palmesthete Beats, K. DUNLAP, 532
- Parmelee, M., Human Behavior, R. S. WOODWORTH, 416
- PARSONS, C. L., Amer. Chem. Soc., 674
- Parthenogenesis, Artificial, J. B. OVERTON and A. SEKES, 841
- Partington, J. R., Mathematics for Chem. Students, E. B. WILSON, 63
- PATON, S., The Psychiatric Clinic, 856
- PATTEN, S. N., Accounts of Learned Societies, 371
- PATTERSON, A. H., Lest we Forget, 488
- PEALE, A. C., Nomenclature, 979
- PEARL, R., Age and Fecundity, 226; Genetics and Breeding, 539; Endowed Agricultural Research, 707
- PEASLEE, L. D., Human Monstrosity, 982
- Pennant, Thomas, Collection, 404
- Pensions, Amer. Mus., 827; in the Rockefeller Institute, 902
- Persimmons, Nonstringency in, F. E. LLOYD, 228
- PHILLIPS, J. C., Pronghorn Antelope, 717
- Philosophical Soc. Univ. Va., W. A. KEPNER, 388, 462, 614, 768, 922
- Physics and Daily Life, C. R. MANN, 351
- PICKERING, E. C., Committee Meetings, 795
- PIERCE, N. B., Walnut, New, 613
- Pieron, H., Sleep, W. H. HOWELL, 525
- Pilsbry, H. A., and A. Hyatt, Conchology, T. D. A. COCKERELL, 255
- Pithecanthropus erectus, E. W. BERRY, 418
- Plant Industry at Nebraska, 974
- Plus and Minus, G. B. HALSTED, 836
- POOL, R. J., Chemical Phenomena, F. Czapek, 66; Metabolic Water, S. M. Babcock, 564
- Population of N. Y. State, 405
- Priority Rule, W. H. DALL, 58
- Psychiatric Clinic, S. PATON, 856
- Psychology, Clinical, J. E. W. WALLIN, 895
- Quotations, 106, 254, 629, 796
- Radiation, R. A. MILLIKAN, 119
- REED, W. G., Meteorology at Univ. Calif., 800
- Relativity, S. J. BARNETT, 113, 560; A. L. KIMBALL, 411
- REMSSEN, L., Address to Nat. Acad. of Sci., 769
- RICHARDSON, O. W., Electricity, W. C. D. Whet- ham, 224
- RIDGWAY, R., Color Standards, W. J. Spillman, 985
- RILEY, W. A., Lepidopterous Larvæ, 715
- RITTER, W. E., British Tunicata, J. Alder and A. Hancock, 451
- ROBINSON, A. T., Composition, 60
- Root Characters, W. A. CANNON, 420
- ROSA, E. B., Natural Monopolies, 579
- RUCKMICH, C. A., Psychologists as Administrators, 972
- RUEDIGER, W. C., S. Soc. for Philos. and Psychol., 767
- RUSSELL, E. J., Microorganic Population of the Soil, 519
- RUTHVEN, A. G., Dorsal Scale Rows of Snakes, 60; Snakes of S. Africa, F. W. FitzSimons, 182; and F. M. GAIGE, Canada Otter, 883
- SACKETT, W. G., Ammonifying Coefficients of Soils, 176
- St. Louis Acad. of Sci., G. T. MOORE, 156; G. O. JAMES, 350, 460, 537, 994
- Salpeter, J., Mathematics for Scientists, R. BEUTNER, 947
- Sanderson and Jackson, Entomology, C. R. CROSBY, 220
- SAYLES, R. W., Lost River, 611
- SCHNEIDER, F., JR., "Haunted" House, 711
- Schröder, C., Entomology, N. BANKS, 872
- SCHUSTER, A., Inter. Cooperation in Research, 691
- Science, and Higher Education, A. T. HADLEY, 775; Club, Univ. Wis., E. R. MILLER, 922
- Scientific, Notes and News, 14, 55, 94, 143, 172, 214, 249, 300, 328, 366, 406, 440, 477, 514, 555, 596, 624, 663, 704, 745, 785, 828, 860, 903, 935, 975; Books, 21, 63, 108, 148, 180, 220, 255, 304, 333, 372, 413, 451, 488, 525, 562, 603, 631, 668, 712, 758, 796, 837, 867, 910, 943, 983; Journals and Articles, 257, 565; Method, C. A. ELLWOOD, 412
- Section F, H. F. NACHTRIEB, 199
- SEWALL, H., Fresh Air, T. S. Carrington, 564

- SHAW, J. B., Space-time Manifold of Relativity, E. B. Wilson and G. N. Lewis, 943
- SHEAR, C. L., Botanical Soc. of Wash., 157, 312, 461, 883, 921
- Shelley, G. E., Birds of Africa, H. C. OBERHOLSER, 336
- SHIMEK, B., Pleistocene Mollusks, 501
- SHUFELDT, R. W., Pleistocene Birds, 306
- SHULL, C. A., Education in Kansas, 622
- Sladen, F. W. L., Humble-bee, W. M. WHEELER, 180
- SMITH, E. F., The Joseph Leidy Lecture, 809
- SMITH, G. O., U. S. Geol. Survey, 205
- SMITH, J. L., Yellowstone Park, 941
- Smithsonian African Expedition, 364
- Societies and Academies, 40, 77, 156, 197, 236, 274, 312, 349, 387, 425, 498, 537, 577, 690, 768, 808, 845, 883, 921, 958, 994
- Soils, W. G. SACKETT, 176
- Southern Soc. for Philos. and Psych., W. C. RUEDIGER, 767
- SPAULDING, E. G., Mechanistic Conception of Life, J. Loeb, 333
- Special Articles, 24, 72, 111, 154, 185, 225, 306, 338, 373, 420, 455, 493, 532, 567, 611, 637, 672, 716, 764, 803, 841, 916, 990
- Spillman, W. J., Color Standards, R. RIDGWAY, 985
- Starling, S. G., Electricity and Magnetism, S. J. BARNETT, 415
- STEVENS, J. S., Government Application Blanks, 304
- STEWART, A., Paraffin Bottles for Acid, 666
- STEWART, C. A., Magmatic Differentiation, 338
- Stiles, P. G., Physiology, W. H. JORDAN, 491
- STURTEVANT, A. H., Drosophila, 990
- SUMMERS, H. E., Cleveland Meeting of Amer. Assoc., 41
- Sumner, William G., A. G. KELLER, 487
- SWEENEY, F. R., Clemson College Sci. Club, 578
- SWINGLE, W. T., Botanical Taxonomy, 864
- SYKES, A., and M. H. FISCHER, Diuretic Salts, 845
- T., Academic Costume, 488
- TALBOT, H. P., Chem. Analysis, F. A. Gooch, 108
- Tarr Memorial Window, 595
- Tausch, Dr. Edwin, D. S. JORDAN, 179
- TAYLOR, W. P., Fur-bearing Mammals, 485
- Temperature of the Moon, F. W. VERY, 949
- TENNENT, D. H., Echinoderm Hybridization, 535
- Tennessee Acad. Sci., W. A. NELSON, 195
- THATCHER, R. W., Educational Institution and Agric. Science, 566
- THOMSON, J. J., Helium and Neon, 360
- THORNDIKE, E. L., Educational Diagnosis, 133, 258
- TOLMAN, R. C., Electromotive Force, 192
- TOMBO, R., JR., University Registration, 253
- TORREY, H. B., Trials and Tropisms, 873
- Torrey Botan. Club, B. O. DODGE, 312
- TOWNSEND, C. H. T., Cotton Weevils, 638
- Traquair, Ramsay Heatley, L. HUSSAKOF, 509
- TREADWELL, A. L., Amer. Soc. of Naturalists, 114
- Trials and Tropisms, H. B. TORREY, 873
- UDDEN, J. A., Blocks and Segments, 709
- Unger, M. S. H., Chemistry, J. E. G., 373
- Universities and Intellect, 629
- University, and Educational News, 18, 57, 98, 145, 175, 218, 252, 302, 331, 368, 409, 445, 483, 517, 558, 599, 627, 666, 706, 750, 788, 833, 863, 905, 939, 978; National, K. HOYT, 99; Registration, R. TOMBO, JR., 253; Instruction, E. S. MOORE, 929
- VERY, F. W., Temperature of the Moon, 949
- W., R. M., The Kahn Foundation, 932
- WADSWORTH, M. E., Mineral Wealth of Canada, 839; The Ore Deposits of Western U. S., 957
- Walcott, C. D., Brachiopoda, J. M. CLARKE, 488
- Walker, E. M., N. A. Dragon Flies, T. D. A. COCK-ERELL, 21
- WALLIN, J. E. W., Clinical Psychology, 895
- WALLIS, W. D., Paleolithic Man, R. Munro, 633
- WALTON, L. B., Ohio Acad. of Sci., 117
- Washington and Jefferson College Physical Laboratory, 975
- Watson, W., Physics, G. F. HULL, 183
- WELLINGTON, R., Russett Skin in the Pear, 156
- WENLEY, R. M., Science and the Human Mind, W. C. D. Whetham, and C. D. Whetham, 529; European Thought, J. T. Merz, 796
- WENNER, F., Electrical Resistance, E. F. Northrup, 562
- Wesleyan Univ. and Professor Fisher, 254
- WHEELER, W. M., The Humble-bee, F. W. L. Sladen, 180
- WHERRY, E. T., Low-Protein Diet, 908
- WHERRY, W. B., Metamorphosis of an Amœba, 494
- Whetham, W. C. D., Electricity, O. W. RICHARDSON, 224; and C. D. Whetham, Science and the Human Mind, R. M. WENLEY, 529
- WHIPPLE, G. C., Chloride of Lime in Sanitation, A. H. Hooker, 948
- Whitney, C., The Flowing Road, J. C. BRANNER, 151
- WIECHMANN, F. G., Sugar Analysis, A. Given, 838
- WILDER, B. G., Academic Costume, 178
- WILDMAN, E. E., Mitochondria in Ascaris, 455
- WILLIAMS, E. H., JR., Alleghany Valley Erosion, 447
- WILSON, E. B., Mathematics for Chem. Students, J. R. Partington, 63; Anton Dohrn, 332; Heredity and Microscopical Research; Joseph Leidy Lecture, 814
- WILSON, E. B., The Purchasing Power of Money, I. Fisher, 758
- Wilson, E. B., and G. N. Lewis, Space-time Manifold of Relativity, J. B. SHAW, 943
- Wilson, F. R. L., and G. W. Hedley, Chemistry, J. E. G., 373
- WINSLOW, C. E. A., Microbes and Toxins, C. Broquet and W. M. Scott, 989
- WOOD, N. A., Mammalian Fauna of Mich., 522
- WOODWORTH, R. S., Human Behavior, M. Parmelee, 416
- WOOLLEY, P. G., Research in Medical Schools, 146
- Wright, G. F., Origin of Man, G. G. MACCURDY, 305
- Wright, W. G., F. GRINNELL, JR., 142
- Yale Peruvian Expedition, 92
- Yellowstone, W. S. FRANKLIN, 446; J. L. SMITH, 941
- ZEEUW, R. DE, Mich. Acad. Sci., 919

